

WHAT IS CLAIMED IS:

1. A sound generating mechanism for a fishing reel that is disposed between a tubular knob mounting portion that is arranged on a reel unit of the fishing reel and a closed end tubular knob member that is rotatively mounted on the knob mounting portion, the sound generating mechanism generating sounds by a relative rotation between the knob mounting portion and the knob member and comprising:

a sounding member adapted to be rotatively mounted to an engagement portion of the knob member and be non-rotative with respect to the knob mounting portion, the sounding member having a disk portion that is formed into a ring shape and a plurality of sounding concavities that are formed circumferentially apart on the disk portion;

a retaining member adapted to be mounted to the knob member such that the sounding member is sandwiched between the retaining member and the engagement portion of the knob member;

a sounding pin that is mounted to the engagement portion of the knob member at a position opposite at least one of the plurality of sounding concavities, the sounding pin being mounted so as to be movable toward and away from the plurality of sounding concavities; and

urging means mounted to the engagement portion of the knob member for urging the sounding pin toward the plurality of sounding concavities.

2. The sound generating mechanism as set forth in claim 1, wherein the sounding pin and the urging means are adapted to be mounted in a mounting recess formed on the engagement portion of the knob member.

3. The sound generating mechanism as set forth in claim 1, wherein the sounding pin has a convex head portion, a mounting portion that is connected to the head portion and has a diameter that is larger than a diameter of the head portion, and a shaft portion that is connected to the mounting portion and has a diameter that is smaller than the diameter of the mounting portion.

4. The sound generating mechanism as set forth in claim 1, wherein the retaining member is adapted to be mounted on an inner peripheral surface of the knob member.

5 5. The sound generating mechanism as set forth in claim 1, wherein the retaining member is mounted in an annular engagement groove that has a diameter larger than an outer diameter of the sounding member and is formed in the inner peripheral surface of the knob member.

10 6. The sound generating mechanism as set forth in claim 1, wherein the retaining member is a C-shaped retaining ring, and an inner diameter of the C-shaped retaining ring is smaller than an outer diameter of the sounding member.

15 7. The sound generating mechanism as set forth in claim 1, wherein a plurality of engagement recesses are formed circumferentially apart in the knob mounting member, and the sounding member has a plurality of protruding portions that are integrally formed on the disk portion and project toward the engagement recesses of the knob mounting member, the plurality of protruding portions non-rotatively engaging with the engagement recesses of the knob mounting member.

25 8. The sound generating mechanism as set forth in claim 1, wherein the urging means includes a coil spring that is disposed around an outer periphery of the sounding pin.

9. The sound generating mechanism as set forth in claim 8, wherein an end portion of the coil spring is engaged with a bottom portion of a mounting recess formed on the engagement portion of the knob member.

30 10. A fishing reel, comprising:  
a reel unit that rotatively supports a handle;

a spool around an outer peripheral surface of which fishing line is wound as the handle rotates;

a tubular knob mounting portion arranged on the reel unit;

a closed end tubular knob member that is rotatively mounted on the knob mounting  
5 portion; and

a sound generating mechanism disposed between the knob member and the knob mounting portion for generating sounds by a relative rotation between the knob mounting portion and the knob member, the sound generating mechanism including:

10 a sounding member that is rotatively mounted to an engagement portion of the knob member and is non-rotative with respect to the knob mounting portion, the sounding member having a disk portion that is formed into a ring shape and a plurality of sounding concavities that are circumferentially apart formed on the disk portion;

15 a retaining member that is mounted to the knob member such that the sounding member is sandwiched between the retaining member and the engagement portion of the knob member;

20 a sounding pin that is mounted to the engagement portion of the knob member at a position opposite from at least one of the plurality of sounding concavities, the sounding pin being mounted so as to be movable toward and away from the plurality of sounding concavities; and

urging means mounted to the engagement portion of the knob member for urging the sounding pin toward the plurality of sounding concavities.

25 11. The fishing reel as set forth in claim 10, wherein the sounding pin and the urging means are adapted to be mounted in a mounting recess formed on the engagement portion of the knob member.

30 12. The fishing reel as set forth in claim 10, wherein the sounding pin has a convex head portion, a mounting portion that is connected to the head portion and has a diameter that is larger than a diameter of the head portion,

and a shaft portion that is connected to the mounting portion and has a diameter that is smaller than the diameter of the mounting portion.

13. The fishing reel as set forth in claim 10, wherein  
5 the retaining member is mounted on an inner peripheral surface of the knob member.

14. The fishing reel as set forth in claim 10, wherein  
the retaining member is mounted in an annular engagement groove that has a  
10 diameter larger than an outer diameter of the sounding member and is formed in the inner peripheral surface of the knob member.

15. The fishing reel as set forth in claim 10, wherein  
the retaining member is a C-shaped retaining ring, and  
15 an inner diameter of the C-shaped retaining ring is smaller than an outer diameter of the sounding member.

16. The fishing reel as set forth in claim 10, wherein  
a plurality of engagement recesses are formed circumferentially apart in the knob  
20 mounting member, and  
the sounding member has a plurality of protruding portions that are integrally formed on the disk portion and project toward the engagement recesses of the knob mounting member, the plurality of protruding portions non-rotatively engaging with the engagement recesses of the knob mounting member.

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17. The fishing reel as set forth in claim 10, wherein  
the urging means includes a coil spring that is disposed around an outer periphery of the sounding pin.

30 18. The fishing reel as set forth in claim 17, wherein  
a mounting recess is formed on a bottom portion of the engagement portion of the knob member, and

an end portion of the coil spring is engaged with the mounting recess.

19. The fishing reel as set forth in claim 10, wherein  
the fishing reel is a spinning reel that has a drag mechanism,  
5 the knob mounting portion is arranged on a rear portion of the reel unit and  
accommodates the rear drag mechanism, and  
drag of the drag mechanism is adjusted when the knob member rotates relative to  
the knob mounting portion.

10 20. The fishing reel as set forth in claim 10, wherein  
the fishing reel is a dual bearing reel that has a casting control mechanism for  
braking the spool,  
the reel unit includes a frame and two side covers that are mounted to both sides of  
the frame,  
15 the knob mounting portion that accommodates the casting control mechanism is  
arranged to project from one of the side covers of the reel unit, and  
breaking force of the casting control mechanism is adjusted when the knob  
member rotates relative to the knob mounting portion.

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